AMENDMENTS TO THE CLAIMS

Docket No.: 2552-000063/US

1. (currently amended) An optical disk recording method comprising:

deriving a recording condition of old <u>user</u> data recorded on a rewritable optical disk by reproducing the old <u>user</u> data or from a reproduced waveform;

deciding an overwriting recording condition to overwrite new data on the old <u>user</u> data recorded under the recording condition of the old <u>user</u> data; and

overwriting the new data on the old <u>user</u> data according to the decided overwriting recording condition.

- 2. (currently amended) The optical disk recording method according to claim 1, wherein the recording condition of the old <u>user</u> data is derived upon an instruction to overwrite the new data on old <u>user</u> data recorded on the rewritable optical disk.
 - 3. (currently amended) An optical disk recording method comprising:

detecting a crosstalk amount from a reproduced signal of old <u>user</u> data recorded on a rewritable optical disk;

setting a recording condition based on the detected crosstalk amount; and overwriting new data according to the recording condition.

Application No. 10/797,710 Docket No.: 2552-000063/US

4. (currently amended) The optical disk recording method according to claim 3, wherein the crosstalk amount is detected upon an instruction to overwrite the new data on old <u>user</u> data recorded on the rewritable optical disk.

- 5. (original) The optical disk recording method according to claim 3, wherein the recording condition is set in response to a difference between the detected crosstalk amount and a reference crosstalk amount.
- 6. (original) The optical disk recording method according to claim 5, wherein an optimum recording power is decided by applying a trial writing onto a trial writing area of the rewritable optical disk, and the reference crosstalk amount is detected based on a reproduced signal of data that are recorded at the optimum recording power.
 - 7. (currently amended) An optical disk recording method comprising:

acquiring a peak-to-peak value of a reproduced signal of old <u>user</u> data recorded on a rewritable optical disk;

setting a recording condition based on the peak-to-peak value; and overwriting new data according to the recording condition.

8. (currently amended) The optical disk recording method according to claim 7, wherein the peak-to-peak value is acquired upon an instruction to overwrite the new data on old <u>user</u> data recorded on the rewritable optical disk.

3

Application No. 10/797,710 Docket No.: 2552-000063/US

9. (currently amended) The optical disk recording method according to claim 7, wherein an optimum recording power is decided by applying a trial writing onto a trial writing area of the rewritable optical disk, and the recording condition is set in response to a difference between the peak-to-peak value of the reproduced signal of data recorded at the optimum recording power and the peak-to-peak value of the reproduced signal of the old user data.

10. (currently amended) An optical disk recording method comprising:

applying a trial writing while changing a laser power irradiated onto a trial writing area of a rewritable optical disk by a predetermined amount;

deciding an optimum recording power based on a reproduced signal of trial-written data:

acquiring a first peak-to-peak value based on a peak value and a bottom value of a reproduced signal of data recorded at the optimum recording power;

acquiring a second peak-to-peak value based on a peak value and a bottom value of a reproduced signal of old <u>user</u> data recorded on the rewritable optical disk; and

correcting an erasing power of a laser beam irradiated onto the rewritable optical disk in response to a difference between the first and second peak-to-peak values, and overwriting the new data by applying a corrected erasing power.

4

Application No. 10/797,710 Docket No.: 2552-000063/US

11. (currently amended) The optical disk recording method according to claim 10, wherein the trial writing is applied upon an instruction to overwrite the new data on old <u>user</u> data recorded on the rewritable optical disk.

- 12. (currently amended) An optical disk recording system comprising:
- a reproducing unit which reproduces data recorded on a rewritable optical disk;
- a crosstalk detecting unit which detects a crosstalk amount from a reproduced signal of the reproducing unit;
- a recording-condition setting unit which sets a recording condition based on the crosstalk amount detected by the crosstalk detecting unit; and
- a recording unit which overwrites new data on old <u>user</u> data according to the recording condition set by the recording- condition setting unit.
 - 13. (currently amended) An optical disk recording system comprising:

a reproducing unit which reproduces data recorded on a rewritable optical disk;

an envelope detecting unit which acquires a peak-to-peak value of a reproduced signal of the reproducing unit;

a recording-condition setting unit which sets a recording condition based on the peak-to-peak value acquired by the envelope detecting unit; and a recording unit which overwrites new data on old <u>user</u> data according to the recording condition set by the recording- condition setting unit.

5

14. (currently amended) The optical disk recording method of claim 1 wherein said overwriting the new data step is performed using a first apparatus and wherein said old <u>user</u> data is recorded on said optical disk by an apparatus that is different from said first apparatus.

15. (new) An optical disk recording method comprising:

deriving a recording condition of old user data recorded on a rewritable optical disk by reproducing the old user data and detecting a crosstalk amount from the reproduced old user data;

deciding an overwriting recording condition to overwrite new data on the old user data recorded under the recording condition of the old user data based on the detected crosstalk amount; and

overwriting the new data on the old user data according to the decided overwriting recording condition.